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UTGOING LTR. NO.

DE ORDER # 4700.1

94 RF-11758

EG&G ROCKY FLATS

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CONFIDENTIAL X

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IN REPLY TO RFP CC NO:

ITEM STATUS:

PARTIAL/OPEN ☐

CLOSED ☐

LETTER APPROVALS:

ORIGINAL & TYPIST INITIALS

EG&G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

November 22, 1994

94-RF-11758

Jessie M. Roberson
Assistant Manager for
Environmental Restoration
DOE/RFFO

COMBINED SITEWIDE ENVIRONMENTAL RESTORATION WATER TREATMENT FACILITY -
SGS-616-94

Action: Concurrence with recommended course of action

EG&G Rocky Flats, Inc. is planning to combine both the Operable Unit (OU 1) and OU 2 Interim Measures/Interim Remedial Action (IM/IRA) water treatment facilities into a sitewide water treatment facility. Combining the units will optimize the water volume treated and provide greater water treatment capabilities than the separate units can achieve independently. This will result in a significant cost savings, increased flexibility in treating water generated during environmental operations, and the potential to deal with changing conditions which may result from remediation of the Industrial Area OUs as well as Decontamination and Decommissioning (D&D) operations.

Currently the OU 1 and OU 2 treatment plants are operating far below optimal levels due to the minor amounts of OU 1 and OU 2 water requiring treatment. The very low volume of water being treated is a result of the recent discontinuation of treating water from the 881 footing drain at the OU 1 treatment facility which comprised about 80-90 percent of the water treated, and the discontinuation of two of the three sources treated at the OU 2 treatment facility which accounted for 95 percent of the water treated there. As a result, the cost per gallon for operating the OU 1 and OU 2 water treatment facilities is very high. Cost savings will also result from the decrease in sampling requirements as only the throughput from one treatment facility will require sampling instead of the current two facilities.

The proposed sitewide treatment facility will be designed to handle all anticipated water generated during environmental operations including the water currently treated by the separate OU 1 and OU 2 treatment facilities. The new sitewide treatment facility is also expected to treat purge water, decontamination water, and the water generated by soil vapor extraction at OU 2. Additionally, it is expected to treat future OU generated incidental waters including groundwater from the OU 4 Solar Ponds project, water collected at OU 7, and any water generated during D&D operations that may need to be treated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The sitewide facility will have sufficient treatment options available in order to effectively handle the many different water sources expected as a result of environmental operations.

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The new sitewide facility will meet the requirements of the Resource Conservation and Recovery Act (RCRA) and CERCLA through implementation of a sitewide water treatment IM/IRA. At the same time that this is developed, the OU 1 IM/IRA and the OU 2 surface water IM/IRA will be modified to remove the scope for the OU 1 and OU 2 water treatment facilities while retaining the water collection scope. To allow for potential future RCRA permitting, the sitewide facility will meet all RCRA substantive requirements but will not currently be permitted under RCRA. Under the IM/IRA, treated water will be discharged to the South Interceptor Ditch. However, by meeting the RCRA substantive requirements, if the facility is needed to treat RCRA wastes which would require RCRA permitting at a later date, the facility could then be permitted. At this time, it appears that RCRA permitting is not necessary in the near term and would complicate water management.

The two currently operating water treatment facilities will be physically combined into a sitewide facility at the Building 891 location. The OU 2 facility is mobile and will be moved to Building 891 and the necessary components will be enclosed. Additional equipment must be acquired to treat all of the anticipated water sources including a pre-filter for water containing suspended solids. Consolidation of the two facilities including the additional equipment is presently funded in a sitewide package (12949). However, additional unfunded equipment with an estimated cost of \$180,000 will be required to optimize the sitewide facility. Funding for construction, operation and maintenance of the sitewide facility will come from the sitewide program.

EG&G is nearing completion of the conceptual phase of this project and is ready to begin developing a detailed schedule for this course of action. Please notify us immediately if this does not meet DOE/RFFO requirements. Please contact Mark Burmeister for additional information at extension 5891.



S. G. Stiger, Director
Environmental Restoration Program Division
EG&G Rocky Flats, Inc.

ALP:jlm

Orig. and 1 cc - J. M. Roberson

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